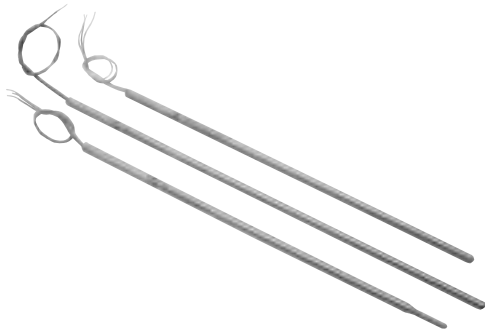


Models 101, 102, & 103 General Purpose RTDs

Designed for a wide range of applications where a simple mounting scheme is required.



Model 101 is a Straight Sheath temperature sensor.

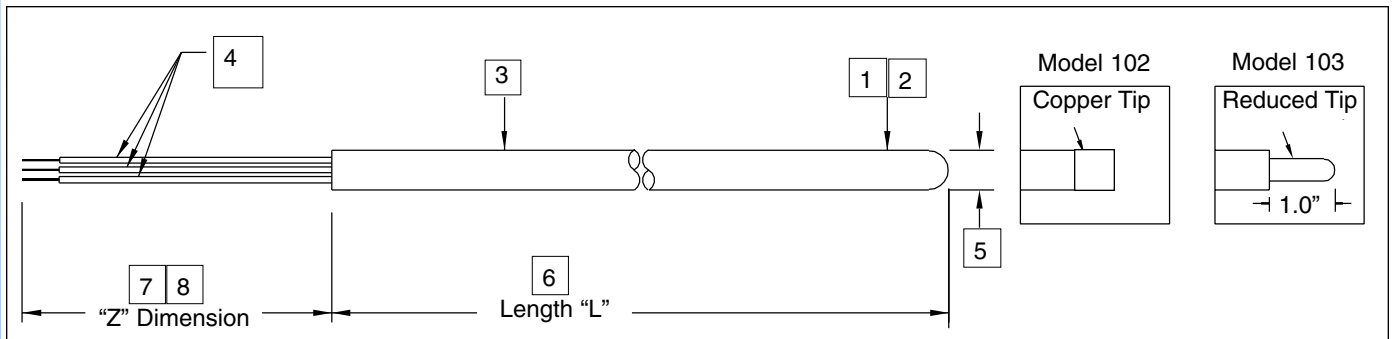
- Refer to Model 201 if welded fitting is required.
- Refer to 300 Series if spring loading is required.

Model 102 is a Copper Tip Sensitive temperature sensor.

- Refer to Model 303 or 304 if spring loading is required.

Model 103 is a Reduced Tip/Fast Response temperature sensor.

- Refer to Model 203 if welded fitting is required.



Specifications:

1. Model	Base Model/Series Number.								
2. A. Accuracy:	Standard Class B (no code) High Class A (code H) Special Customer Specified (code S) * Industry Standard is DIN Curve (code 01B), Platinum, 100 ohms @ 0°C. Conforms to IEC 751, DIN 60751.								
B. TCR:	Temperature Coefficient of Resistance is the temperature vs. resistance characteristics of a given metal (Pt, Cu & Ni) used in manufacturing the RTD. Determines the curve of the RTD.								
C. Ice Point Resistance:	R ₀ - Resistance at 0°C (32°F)								
D. Response Time:	Dependent on sheath diameter, the smaller the diameter - the faster the response. See RTD General Specs.								
E. Tip Sensitivity:	Model 102 Copper Tip, element is encapsulated in copper to increase sensitivity at tip of probe.								
3. Construction:	Code A - 316SS tube and wire construction, thin film element (.00385055) TCR, Teflon insulated lead wire. Code C - 316SS tube and wire construction, wire wound element, fiberglass insulated lead wire. Code B & D - Inconel sheathed MgO construction, wire wound element, fiberglass insulated lead wire.								
4. Lead Wires:	<table border="0" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">3 - Wire</td> <td style="width: 25%;">4 - Wire</td> <td style="width: 25%;">6 - Wire (Dual 3 - Wire)</td> <td style="width: 25%;">8 - Wire (Dual 4 - Wire)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	3 - Wire	4 - Wire	6 - Wire (Dual 3 - Wire)	8 - Wire (Dual 4 - Wire)				
3 - Wire	4 - Wire	6 - Wire (Dual 3 - Wire)	8 - Wire (Dual 4 - Wire)						
5. Sheath Diameter:	.250" (1/4") is the industry standard. Code C/N for reduced tip design.								
6. Sheath Length:	Entire stem length.								
7. Lead Wire Length:	Length of wires beyond the sheath. Use Z000 if connector is installed directly on the end of sheath.								
8. Lead Wire Protection:	Stainless Steel Overbraid or Stainless Steel Armor. Order length at 3"-6" shorter than lead wire length. Example: Z024-X020								
9. Connectors:	Optional male plug for sensor end. For mating jack add code "/J".								
10. Optional Fittings:	Sensor is not supplied with mounting hardware, specify optional fitting.								
11. Water resistant:	Increases moisture protection for humid environments.								

Model	Description		
101	General Purpose RTD		
102	General Purpose, Tip Sensitive RTD (Non-Spring Loaded)		
103	General Purpose, Reduced Tip/Fast Response RTD (Non-Spring Loaded)		
1	Code R ₀ & Temperature Coefficient		
	01B	100 ohm Platinum .00385055 TCR 100 ohms @ 0° C - Industry Standard	
	01A	100 ohm Platinum .003902 TCR 100 ohms @ 0° C	
	10A	1000 ohm Platinum .003902 TCR 1000 ohms @ 0° C	
	10B	1000 ohm Platinum .00385055 TCR 1000 ohms @ 0° C	
	12N	120 ohm Nickel .00672 TCR 120 ohms @ 0° C	
	09C	10 ohm Copper (9.035) .004274 TCR 10 ohms @ 25° C	
	Add Code "H" for higher accuracy Add Code "S" for special accuracy Add Code "M_", ME for matched to element, MT for matched to transmitter, MP for two matched probes.		
	2	Code Construction Temperature Limit For Models	
		A	500° F Maximum All
C		900° F Maximum (Platinum Only) 101 & 103	
D		1200° F Maximum (Platinum Only) 101 & 103	
3	Code Number of Lead Wires For Models		
	2	2-Wire (No lead Compensation) All	
	3	3-Wire (Lead Compensation) All	
	4	4-Wire (Complete Compensation) All	
	6	Dual 3-Wire (With dual element) 101	
4	Code Sheath Diameter For Models		
	A	.125" (1/8") Diameter 101	
	B	.187" (3/16") Diameter 101	
	C	.250" (1/4") Diameter All	
	C/N	.250" (1/4") Dia. Sheath/.156" Dia. Tip 103	
	Other	Consult factory	
5	Code Sheath Length		
	XXX.X	Specify length to nearest 0.1"	
6	Code Lead Wire Length		
	Z006	6" - Standard with head	
	Z024	24" - Standard without head	
	ZXXX	Other - Consult factory	
7	Code Lead Wire Protection		
	X__	Stainless steel overbraid - (specify inches)	
	Y__	Stainless steel armor - (specify inches)	
	Other	Consult factory	
8	Code Connectors		
	P1	Standard Size, Standard Temperature	
	P2	Standard Size, High Temperature	
	P3	Miniature, Standard Temperature	
	P4	Miniature, High Temperature (add "J", optional mating jack)	
9	Code Optional Fittings		
	A1S	Compression: 1/8" Sheath x 1/8" NPT SS	
	B1S	3/16" Sheath x 1/8" NPT SS	
	B2S	3/16" Sheath x 1/4" NPT SS	
	C1S	1/4" Sheath x 1/8" NPT SS	
	C2S	1/4" Sheath x 1/4" NPT SS	
	C3S	1/4" Sheath x 1/2" NPT SS	
	NS1	1/4" Sheath x 1/2" NPT Hex Nipple	
	NS2	3/16" Sheath x 1/2" NPT Hex Nipple	
	NS3	1/8" Sheath x 1/2" NPT Hex Nipple	
	310	Spring-Loaded 1/2" x 1/2" Hex Fitting Kit	
F5S	1/4" Sheath 1/2" X 1/2" Hex Fitting With Adjustable Fluid Seal		
Other	Consult Factory		
10	Code Option		
	W	Water Resistant	

101	-	01B	-	A	-	3	-	C	-	012.0	-	Z024	-	X020	-	-	-	NS1	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sample Model Number

Your Model Number

